

FIG. 1

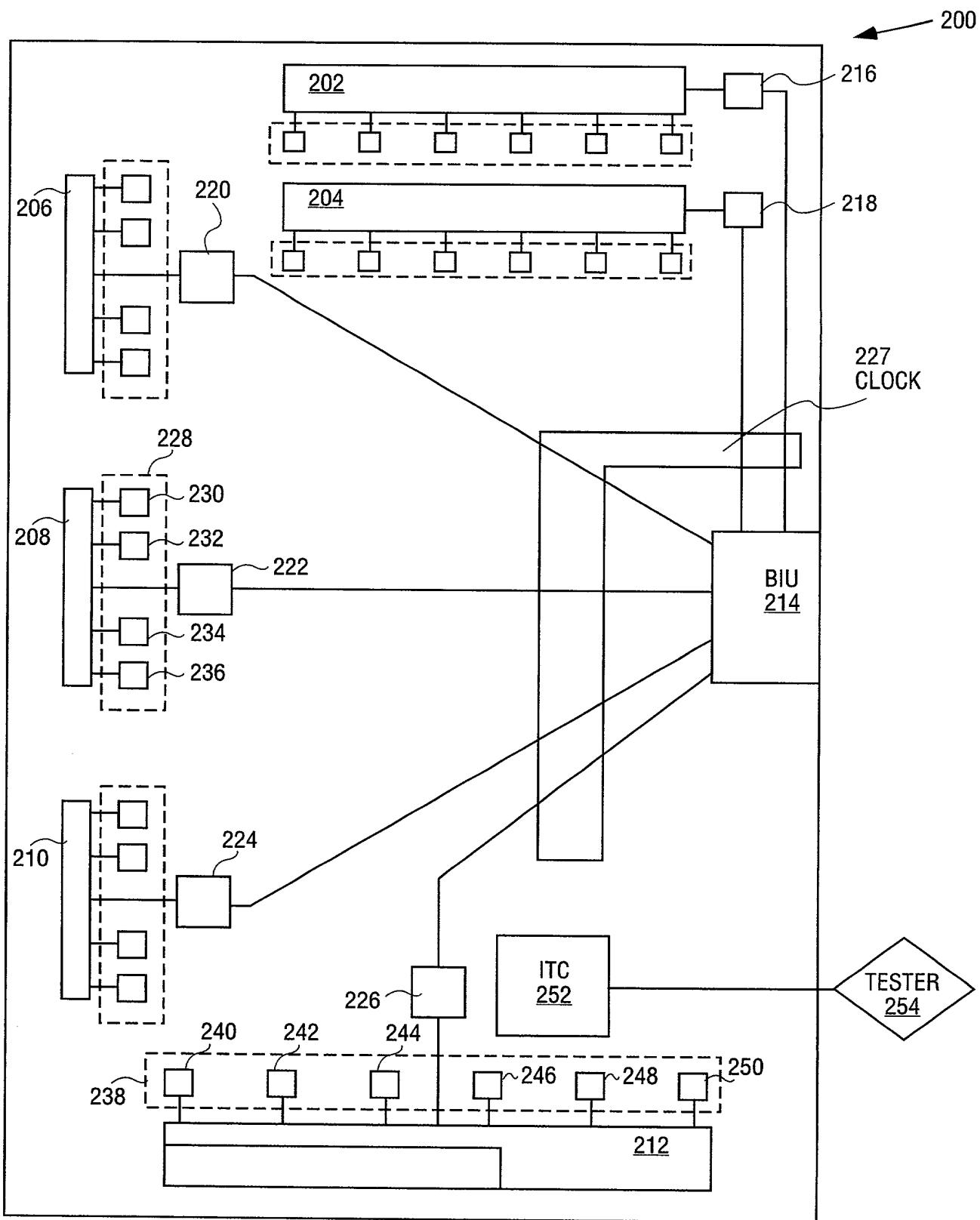


FIG. 2

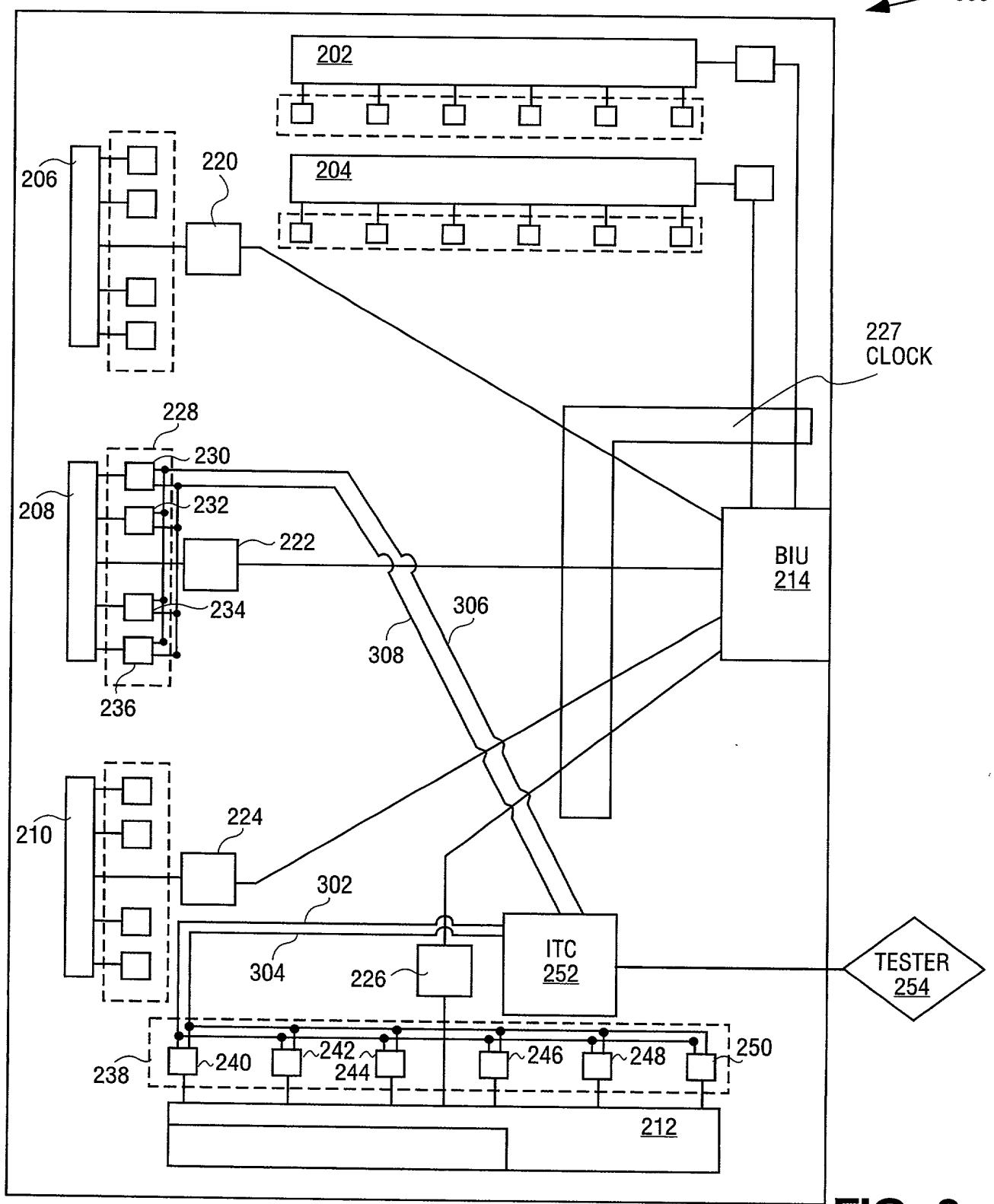


FIG. 3
(PRIOR ART)

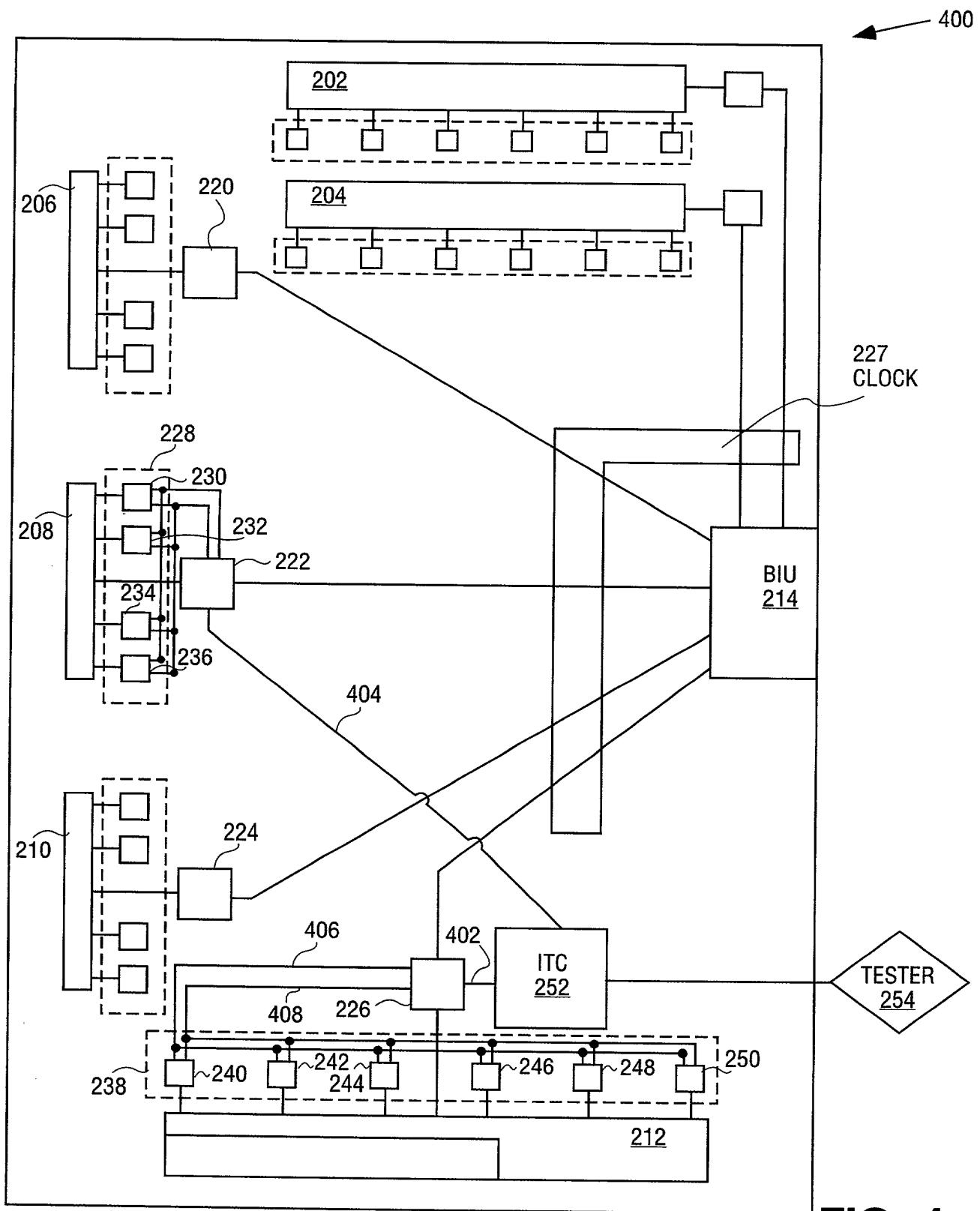


FIG. 4

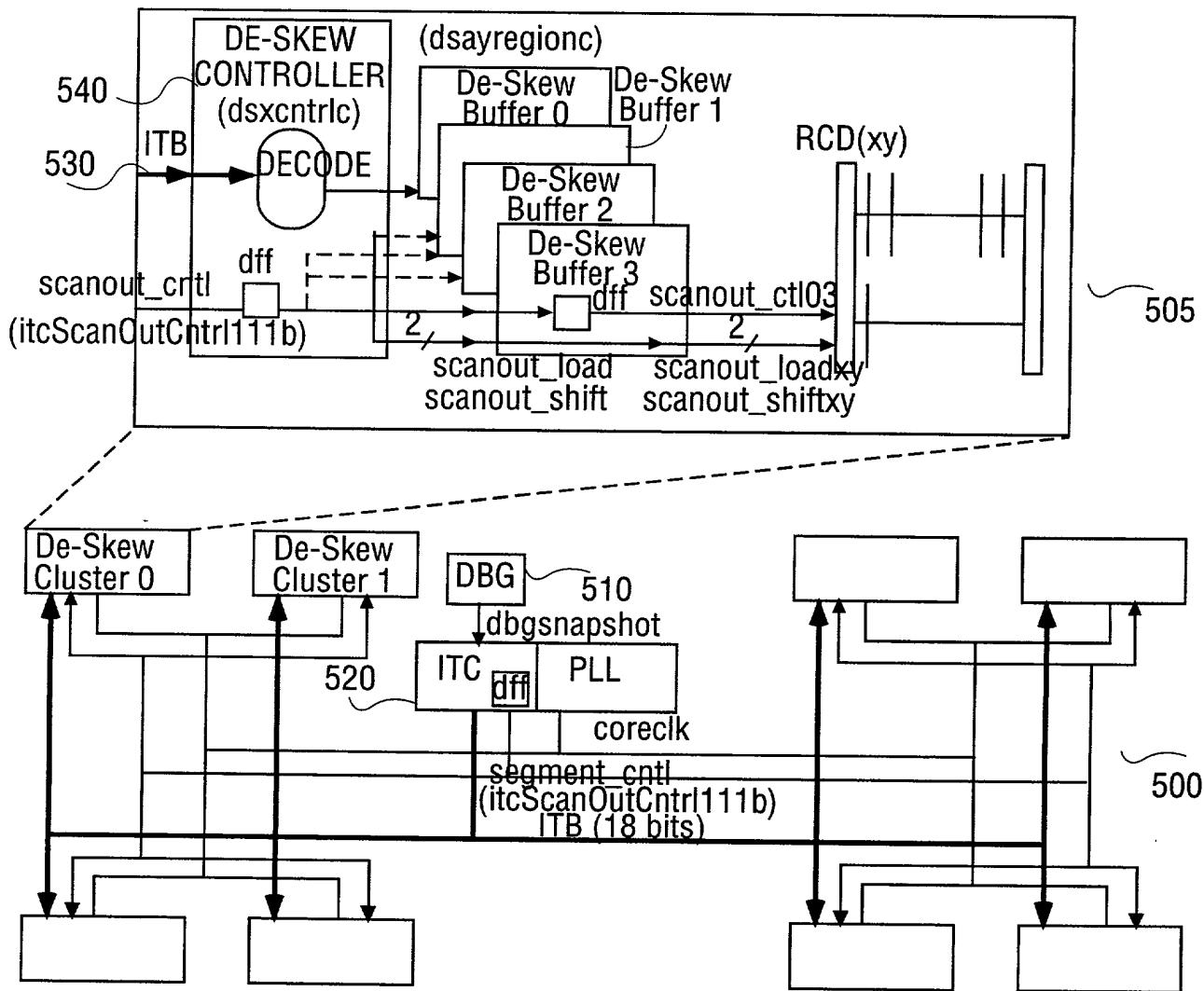


FIG. 5

control line/clock	Logic equations / details		Generated from	Driven to
scanout_load (non_critical)	$SCANOUTSIG + SCANOUTLOAD + SCANOUTLOADDBG + (ISCAN_BUS + ISCAN_TAP)$		De-skew controller	all LBFS
scanout_shift (non_critical)	$SCANOUTSIG + SCANOUTSHIFT$		De-skew controller	all LBFS
ck (clock driving scanout ff)	scanout_ctl & qclk		LBF	LBF
scanout_ctl	1. $(SCANOUTLOADDBG \& Run-test/Idle)$ 2. $(SCANOUTLOAD \& Run-test/Idle \& TDI)$ + 3. $(SCANOUTSHIFT \& (TCK \& gclk)^*)$ + 4. $(SCANOUTRST + (SCANOUTSIG + Run-test/Idle \& dbgsnapshot + (ISCAN_BUS + ISCAN_TAP))$	ITC, staged in De-skew cluster	all LBFS	

FIG. 6

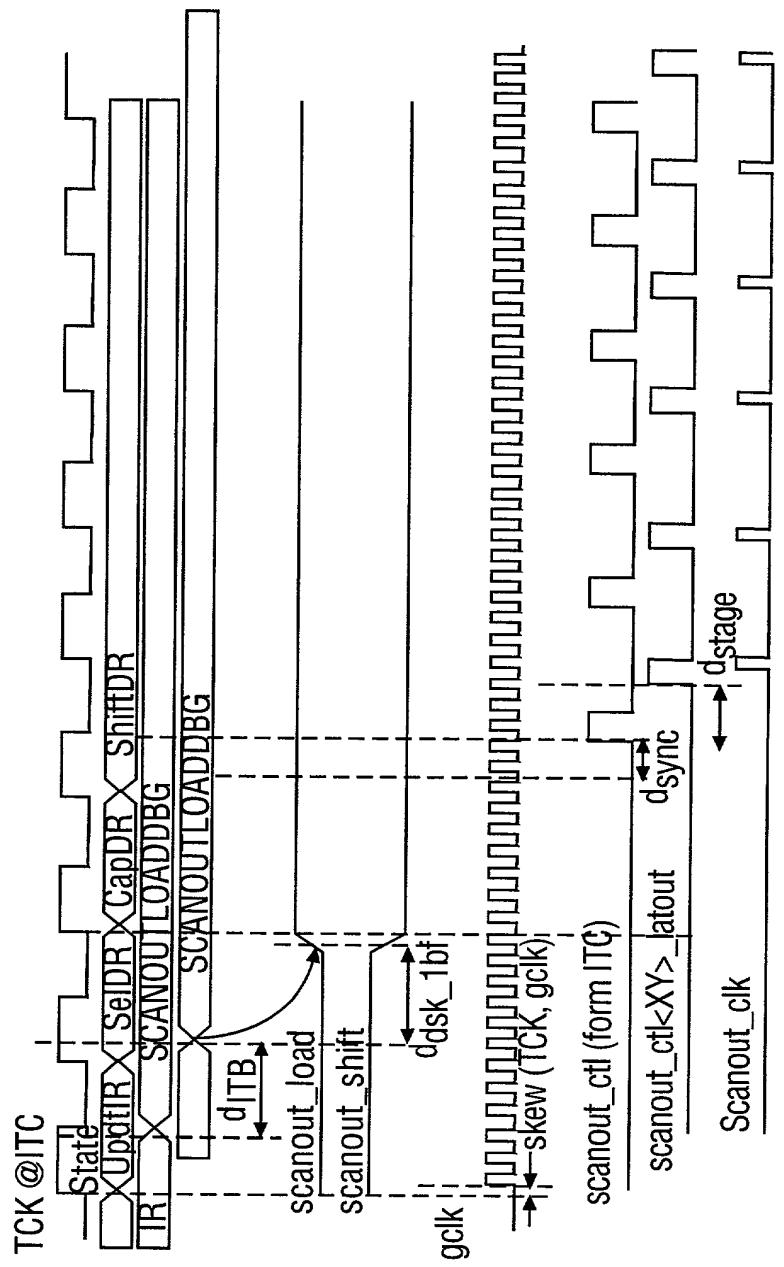


FIG. 7

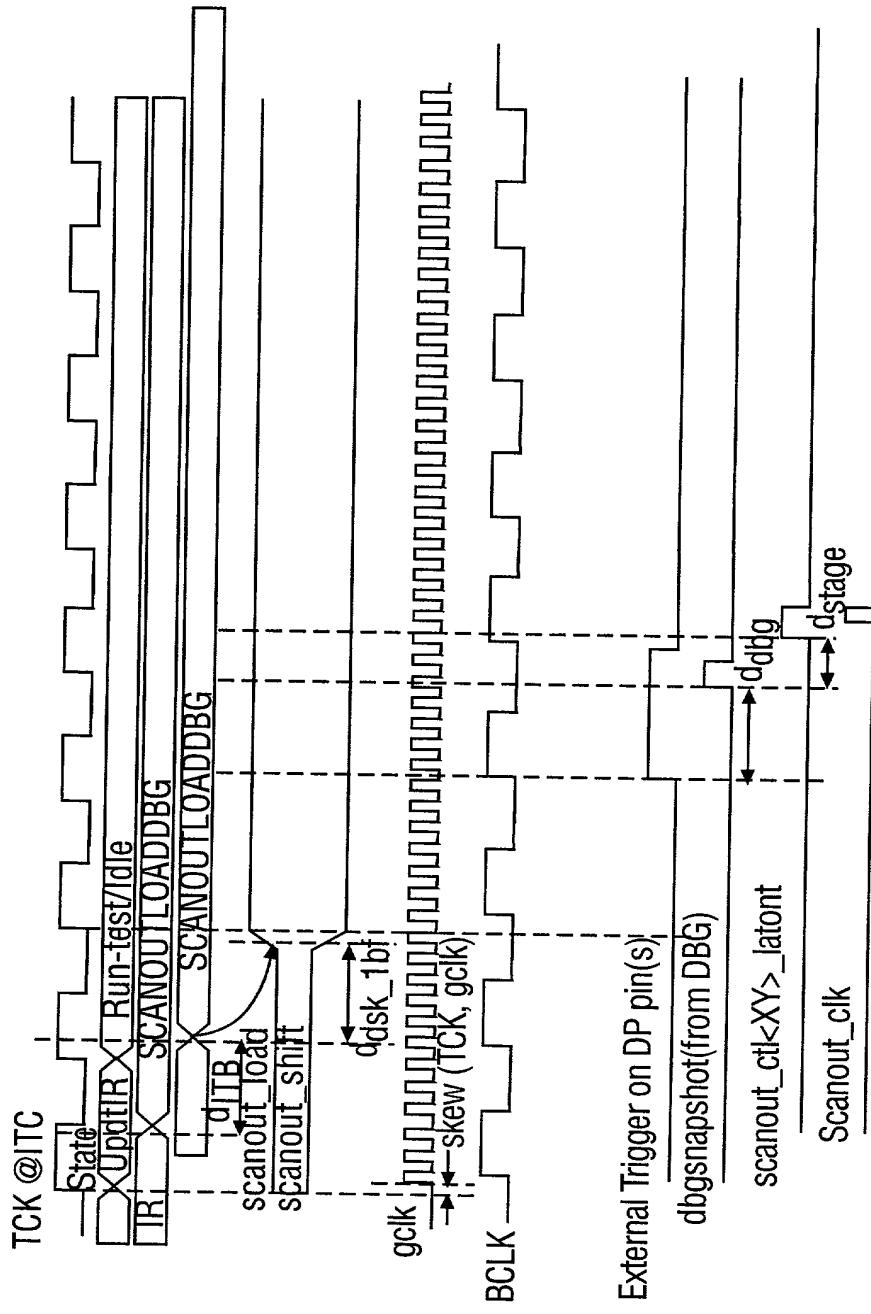


FIG. 8